

LISTING OF THE CLAIMS

1 1-35 (Canceled)

1 36. (Currently Amended) A pleated fluid filter arrangement comprising: at least one
2 layer of fluid filter media pleated into a plurality of longitudinally extending adjacent
3 opposed successive pleat flanks of selected depth and spacing between successive pleat
4 flanks to provide spaced upstream and downstream filter face crests; each of said
5 successive pleat flanks comprising a single plane having a first side and a second side
6 manufactured to have minimal wave formation and being spaced by a pair of engaging
7 adhesive increments of formed material of selected length applied to said flank planes
8 adjacently extending with said selected lengths centrally oriented between and spaced
9 from said spaced upstream and downstream filter face crests, ~~said increments of spaced~~
10 ~~formed material increments being adhered to a planar surface of said adjacent opposed~~
11 ~~successive pleat flanks; said first side having at least one of said adhesive increments of~~
12 formed material and said second side having at least one of said formed material adhesive
13 increments wherein said at least one of said adhesive increments of a first side of one of
14 said successive pleat flanks engages said at least one said adhesive increments of second
15 side of an adjacent said successive pleat flank each increment of said pair of adhesive
16 increments having a longitudinal axis, said pair of longitudinal axes being substantially
17 aligned on said at least one layer of fluid filter media.

1 37. (Original) The pleated fluid filter arrangement of Claim 36, said increments
2 of said spaced formed material increments being selected from a suitable fluid pliable
3 adhesive.

1 38. (Previously Presented) The pleated fluid filter arrangement of Claim 36,
2 said engaging increments of said formed material being of selected thickness so that the
3 distance between adjacent successive pleat flanks and between said spaced upstream and
4 downstream filter face crests is substantially equal.

1 39. (Original) The pleated fluid filter arrangement of Claim 38, said adjacent
2 successive pleat flanks being of a substantially uniform level geometric configuration to
3 minimize wave formation and to minimize fluid pressure drop between said spaced
4 upstream and downstream media faces during filtering operations.

1 40. (Original) The pleated filter arrangement of Claim 36, said fluid filter media
2 comprising at least one layer of selected scrim material serving as a support layer and a
3 selected fine synthetic filter media material applied to said selected scrim material.

1 41. (Original) The pleated filter arrangement of Claim 40, said scrim material is
2 in the range of approximately forty (40) to two hundred (200) grams per square meter
3 (g/sq. m.) in basic weight with a fiber size in the range of approximately seven (7) to one
4 hundred (100) micrometers with a Gurley stiffness in the range of thirty (30) to five
5 thousand (5000) grams.

1 42. (Original) The pleated filter arrangement of Claim 40, wherein said scrim
2 material includes with a selected hot melt spray of adhesive amorphous material and said
3 filter media material is of a relatively estimated selected weight, fiber, thickness and
4 porosity when applied to said hot melt spray coating.

1 43. (Previously Presented) The pleated filter arrangement of Claim 36, said
2 pair of engaging increments being in the form of substantially similar length first and
3 second sets with at least one of said sets having a substantially uniform cross-section with

4 at least one certain select increment of said other set being of differing cross-section
5 wherein at least one certain pair of said pair of engaging increments is tapered to provide
6 tapered spacing and an overall geometric configuration conducive to a select geometric
7 configuration.

1 44. (Previously Presented) The pleated filter arrangement of Claim 36, said
2 engaging formed material increments being in first and second sets with at least selected
3 increments of at least one set overlapping with respect to selected pleat crests of said
4 other set.

1 45. (Previously Presented) The pleated filter arrangement of Claim 36, said
2 engaging formed material increments being in first and second sets with at least selected
3 formed material increments of one set differing in length from at least one of the lengths
4 of the other of said sets.

5 46. (Previously Presented) The pleated filter arrangement of Claim 36, said
6 engaging formed material increments being in first and second sets with at least one of
7 said formed material increments of one set differing in cross-sectional breadth from a
8 cross-sectional breadth of at least one of said other formed material increment of said
9 other set.

1 47. (Previously Presented) The pleated filter arrangement of Claim 36, said
2 engaging formed material increments being pressure displaced increments.

1 48. (Original) The pleated filter arrangement of Claim 40, wherein said at least
2 one layer of filter media is of synthetic fibrous material.

1 49. (Original) The pleated filter arrangement of Claim 48, wherein at least one
2 layer of filter media is of cellulose material.

1 50. (Original) The pleated filter arrangement of Claim 40, wherein at least one
2 selected scrim layer has been fed to said forming zone as a downstream support layer and
3 a selected fine synthetic filter media material has been applied thereto.

1 51. (Original) The pleated filter arrangement of Claim 50, wherein said
2 downstream support layer includes synthetic material.

1 52. (Original) The pleated filter arrangement of Claim 50, wherein said
2 downstream support layer is of wet-laid material.

1 53. (Original) The pleated filter arrangement of Claim 50, wherein said
2 downstream support layer is of cellulose material.

1 54. (Original) The pleated filter arrangement of Claim 50, wherein said
2 downstream support layer is of dri-laid material.

1 55. (Original) The pleated filter arrangement of Claim 50, wherein said
2 downstream support layer is of spunbond material.

1 56. (Original) The pleated filter arrangement of Claim 50, wherein said the
2 selected fine synthetic filter media is of meltblown material.

1 57. (Original) The pleated filter arrangement of Claim 56, wherein said the
2 selected fine synthetic filter media being is meltblown material with a selected additive.

1 58. (Original) The pleated filter arrangement of Claim 57, wherein said additive
2 is a fluoro chemical additive to provide water repellency.

1 59. (Previously Presented) The pleated filter arrangement of Claim 36 wherein
2 said plurality of longitudinally extending adjacent opposed successive pleat flanks have
3 said spaced formed material increments on alternating pleat flanks between said upstream
4 and downstream filter face crests.

60. (Previously Presented) The pleated filter arrangement of Claim 36 wherein said plurality of longitudinally extending adjacent opposed successive pleat flanks have said formed material increments on either said pleat flanks between said downstream filter face crests or said pleat flanks between said upstream filter face crests.

61. (Previously Presented) The pleated filter arrangement of Claim 36 wherein a succession of transverse score lines in a fluid filter material form said filter face crests between said longitudinally extending adjacent opposed successive pleat flanks, said engaging increments of formed material increments being disposed in spaced parallel and aligned relation normal to said transverse score lines and parallel to fluid flow.

62. (Currently Amended) A pleated fluid filter arrangement comprising: at least one layer of fluid filter media pleated into a plurality of longitudinally extending adjacent opposed successive pleat flanks of selected depth and spacing between successive pleat flanks to provide spaced upstream and downstream filter face crests; said successive pleat flanks having a singularly planar configuration formed in a pleating zone with a back and forth reciprocating motion of a reciprocating mechanism between opposed media faces so as to have minimal wave contour formation and being spaced by a pair of engaging adhesive increments of selected length of formed material adjacently extending with said selected lengths centrally oriented between and spaced from said upstream and downstream filter face crests, said increments of formed material being adhered to the planar surface of said adjacent opposed successive pleat flanks~~[[;]]~~ so that each of said successive pleat flanks has a first face and a second face and each of said first face and said second face has one of said adhesive increments of formed adhesive material

14 adhered thereto, said pair of engaging increments being longitudinally aligned and
15 normal to said filter face crests.

1 63. (Previously Presented) The pleated fluid filter arrangement of Claim 36 wherein
2 said engaging increments are aligned in a direction substantially perpendicular to score
3 lines.

64. (New) A pleated fluid filter device, comprising:

a fluid filter media having a longitudinal axis pleated into successive pleat flanks,
said pleat flanks defined between upstream and downstream filter face crests, each of the
successive pleat flanks having an embossment-free plane with minimal wave formation,
wherein a pair of successive pleat flanks are separated by at least one adhesive spacer on
said upstream side of said fluid filter media and free of spacers on said downstream side
of said fluid filter media and further wherein each increment of said adhesive spacer
increments has a longitudinal axis extending substantially parallel to said longitudinal
axis of said fluid filter media.